

ADVANCED AIR EPIC FAN COIL FOR CANARY WHARF



State Street Bank building at 20 Churchill Place, Canary Wharf, is one of the first major projects to install the highly efficient EPIC fan coil unit as manufactured by Advanced Air.

The energy saving credentials with specific fan power, SFP, as low as 0.15 w/l/s was a major factor in the selection of this product which also has a unique fan deck arrangement with horizontally mounted fans utilising ECM motors. These motors incorporated a "smart card" which meant that irrespective of the external resistance the fan volume would be held constant. With this smart card the fans could be factory calibrated and set at the desired air volume and therefore there was no need to resort to expensive "on site" commissioning.

The chilled water temperatures were elevated at 12_C/17_C to maximise the energy saving available with increased periods of free cooling. With the units serving relatively large zones cooling capacities were high and up to 5.8kW outputs were required.

Since Advanced Air design and manufacture their fan decks they have the flexibility to change the cross section of the unit to optimise the performance. After testing at their R & D centre in Thetford the optimum size was found to be 1500 x 975 x 333 mm with air volume flow of 780 l/s.

The specially designed unit was part of a £400,000 contract that included all the fan coil units and associated diffusers and plenum boxes.

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